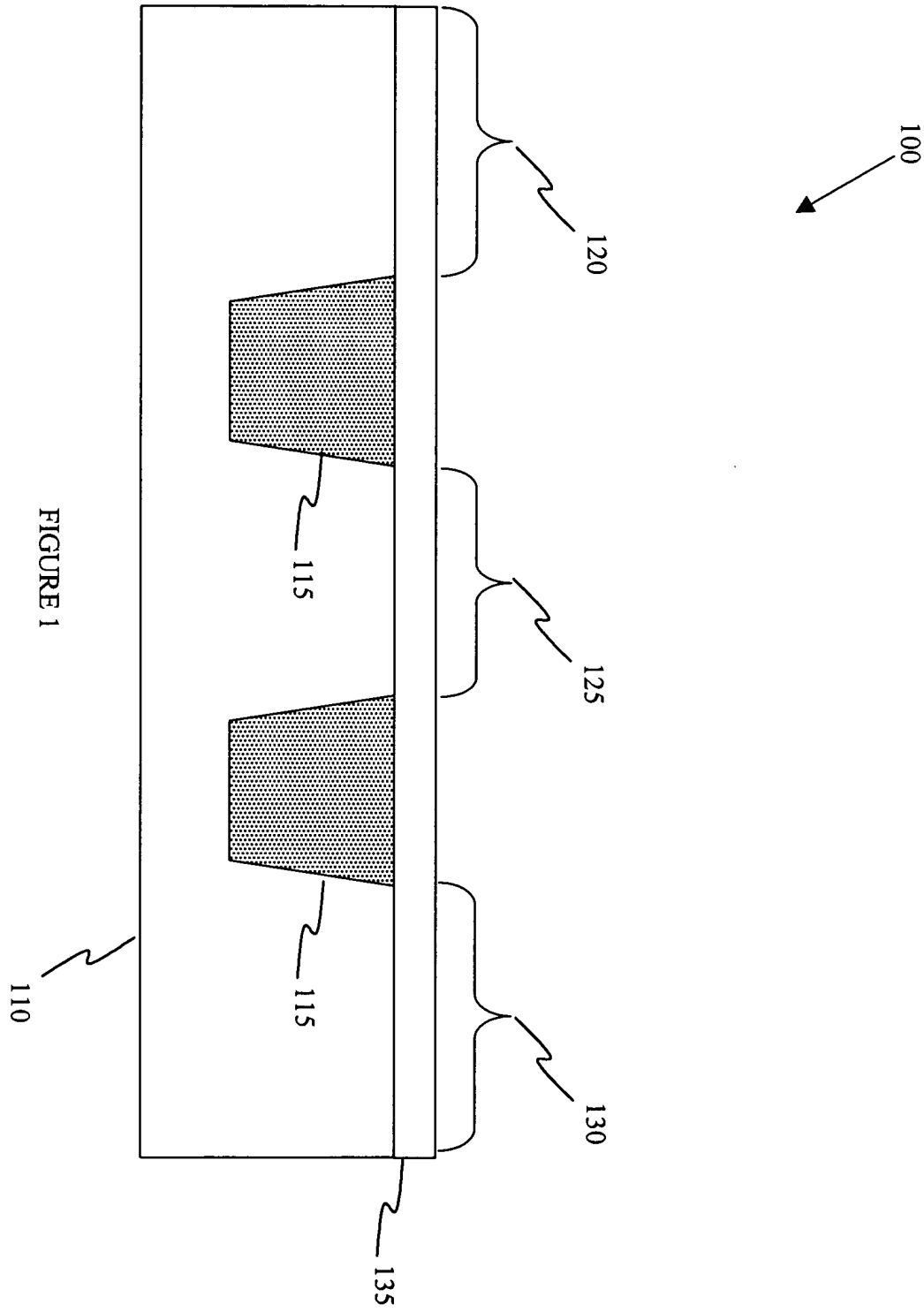


FIGURE 1

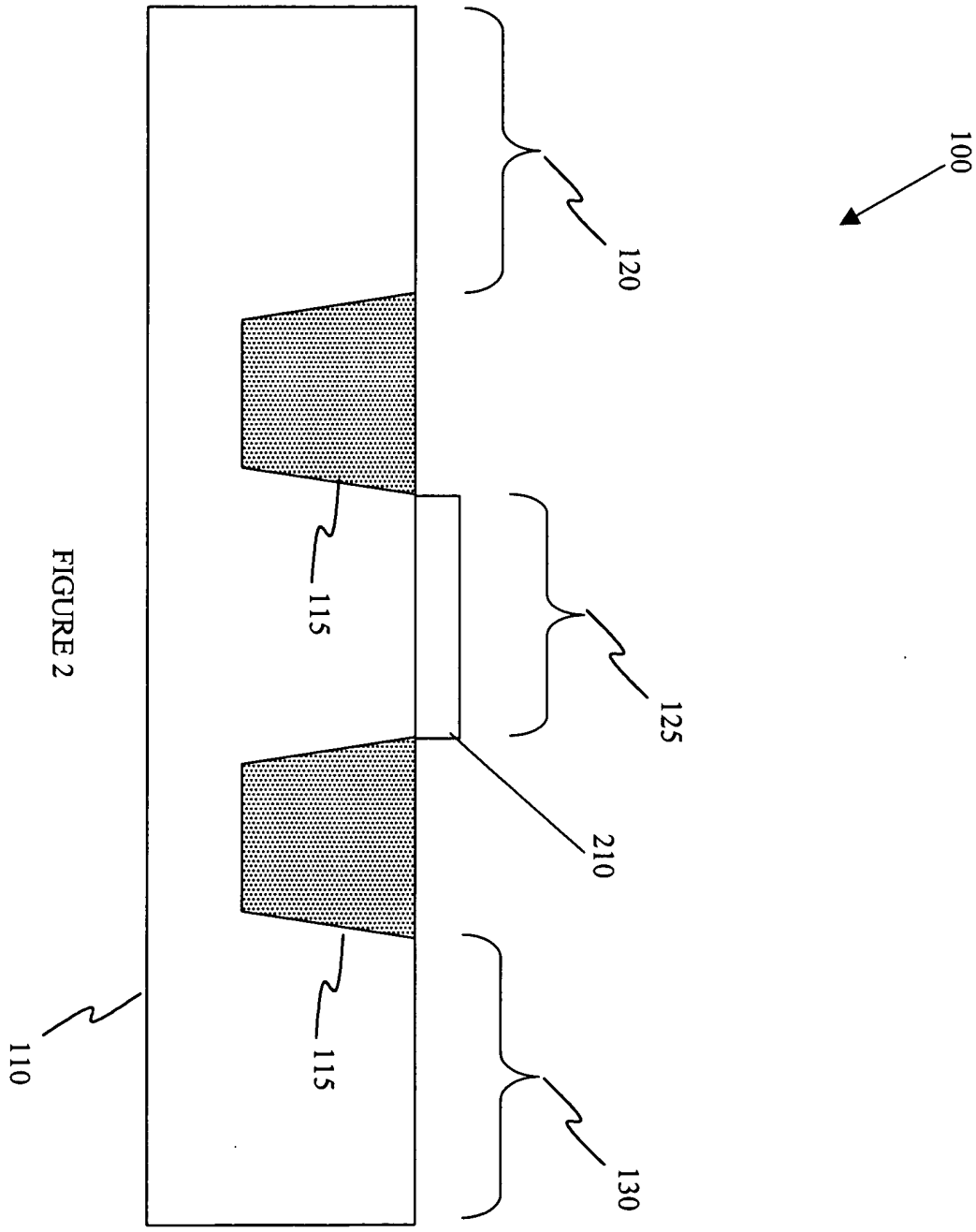


FIGURE 2

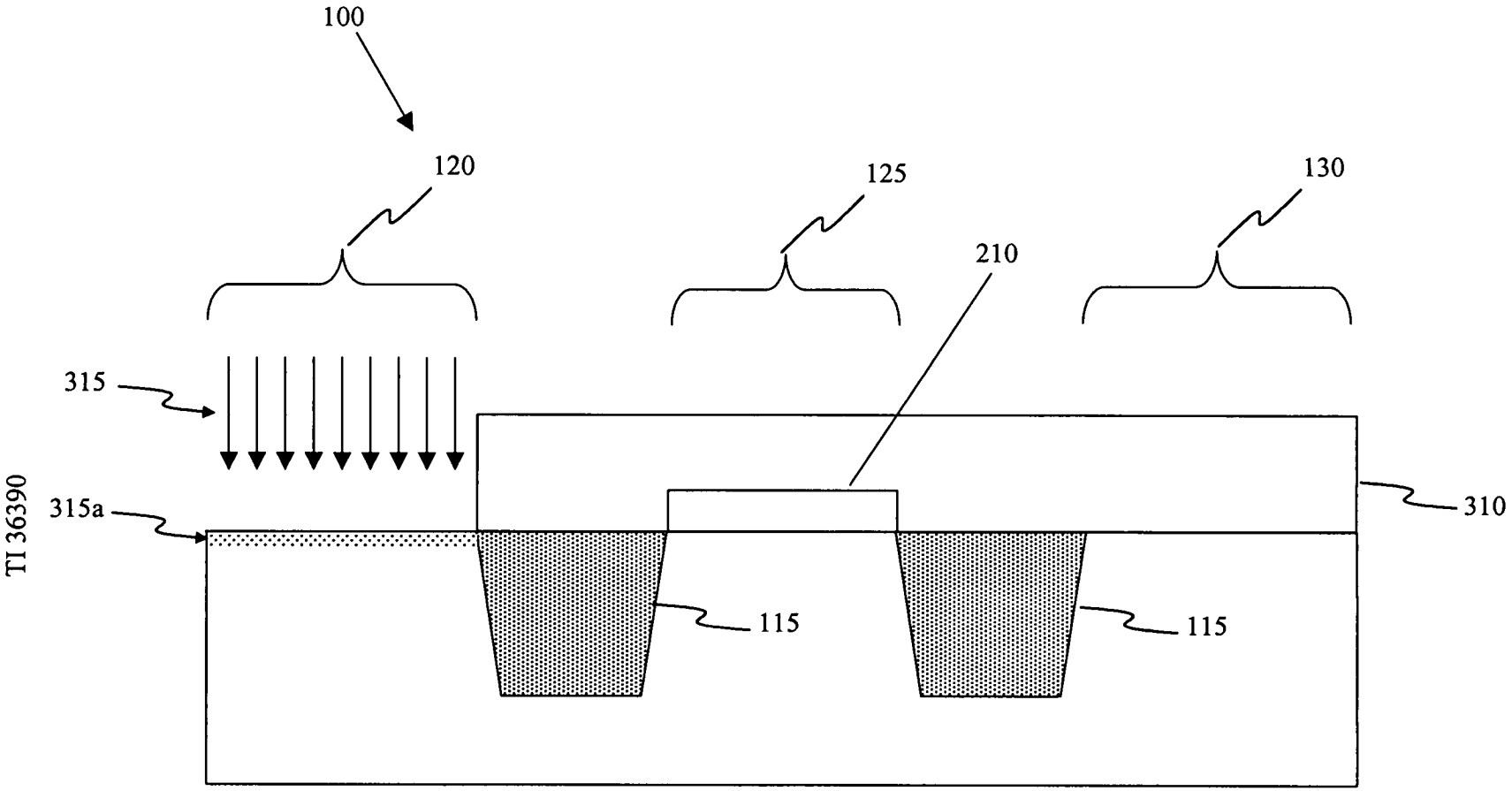


FIGURE 3A

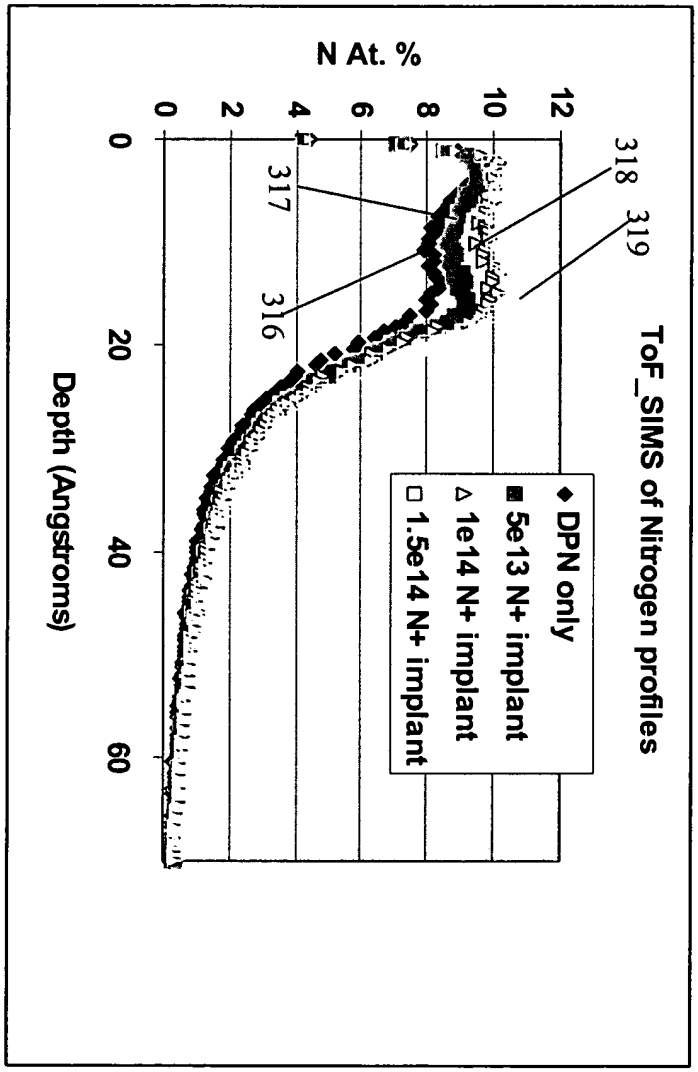

ToF_SIMS of Nitrogen profiles
N At. %
Depth (Angstroms)
◆ DPN only
■ 5e13 N+ implant
△ 1e14 N+ implant
□ 1.5e14 N+ implant
318
319
317
316
0
2
4
6
8
10
12
0
20
40
60

FIGURE 3B

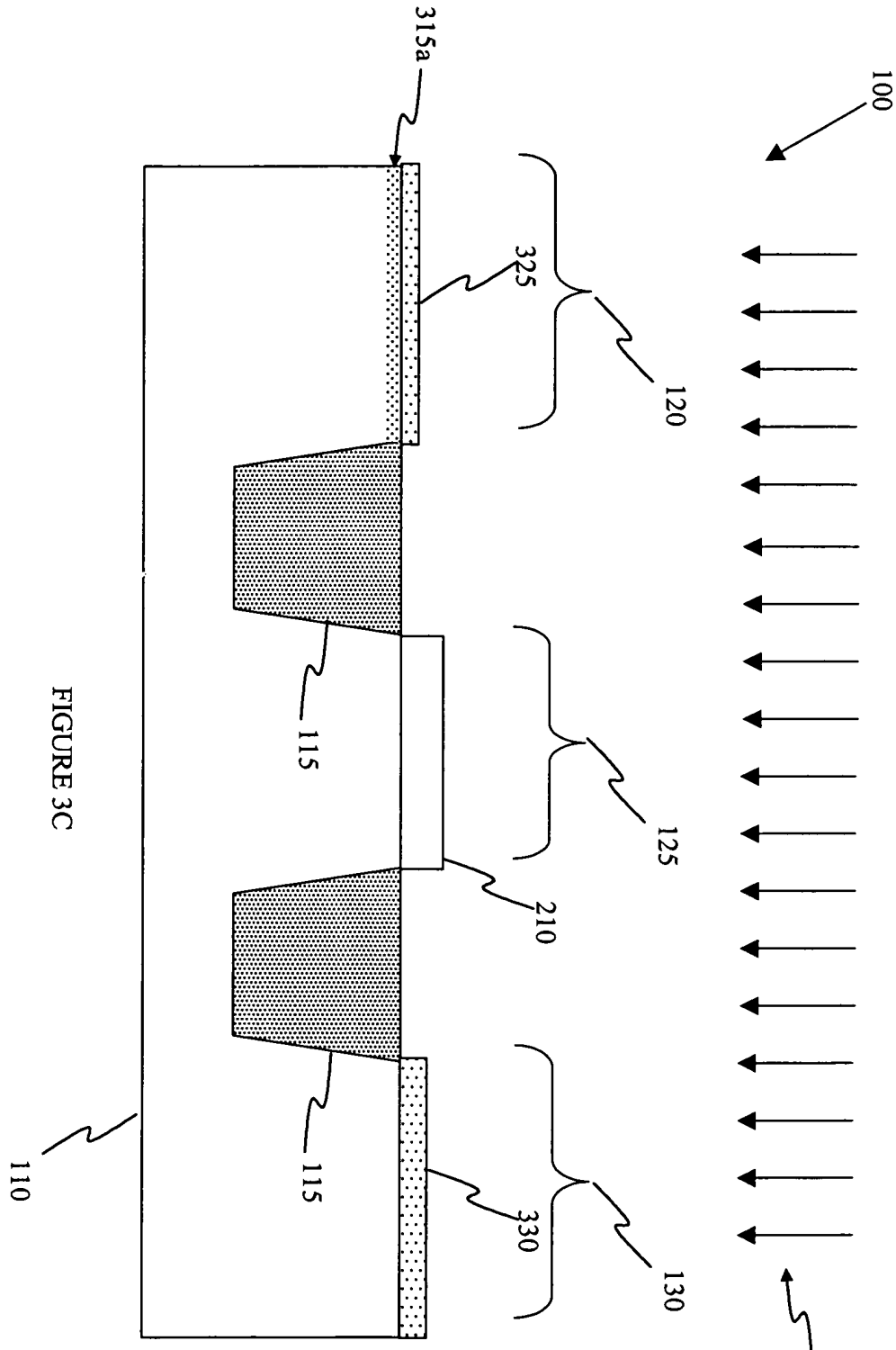


FIGURE 3C

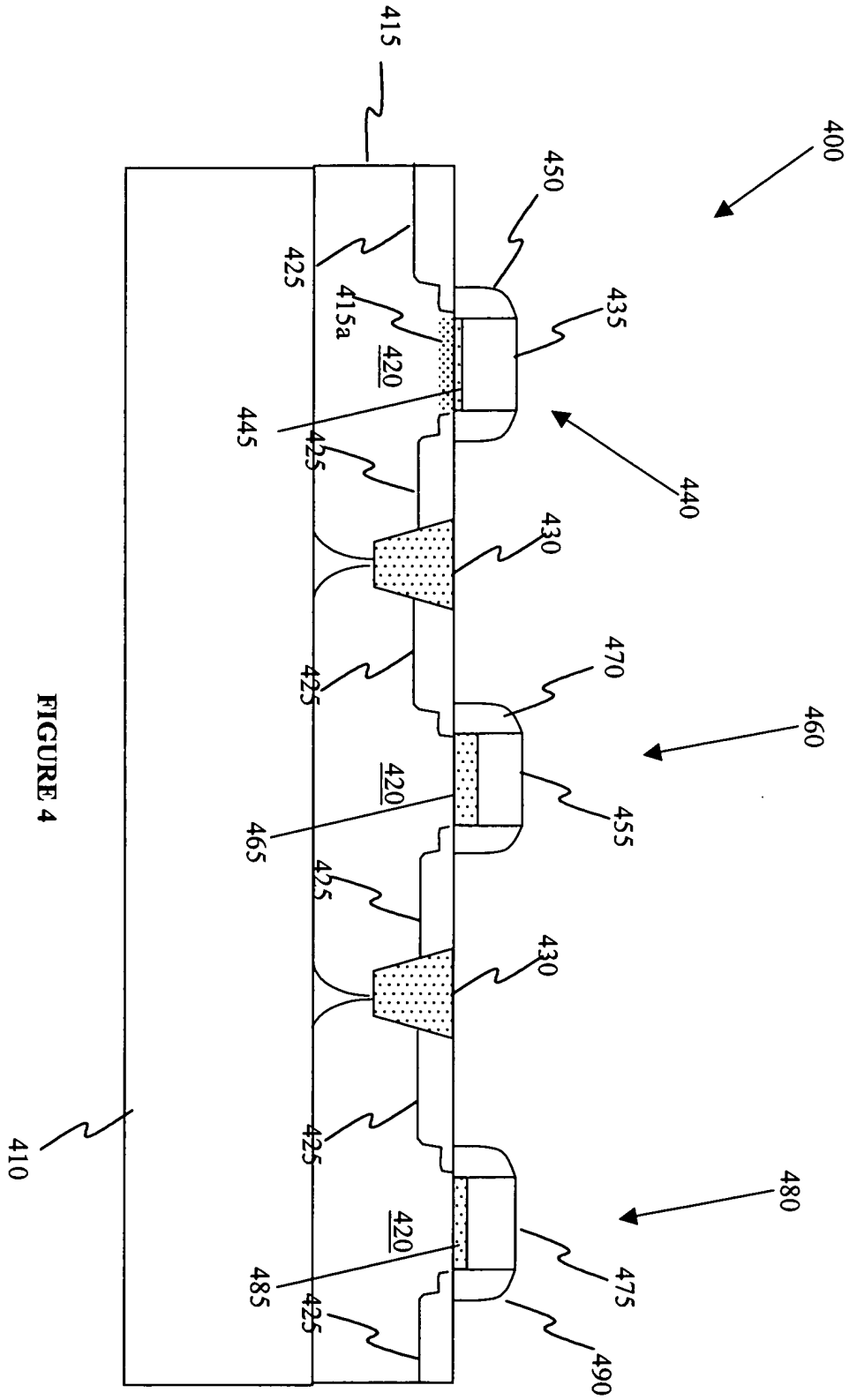
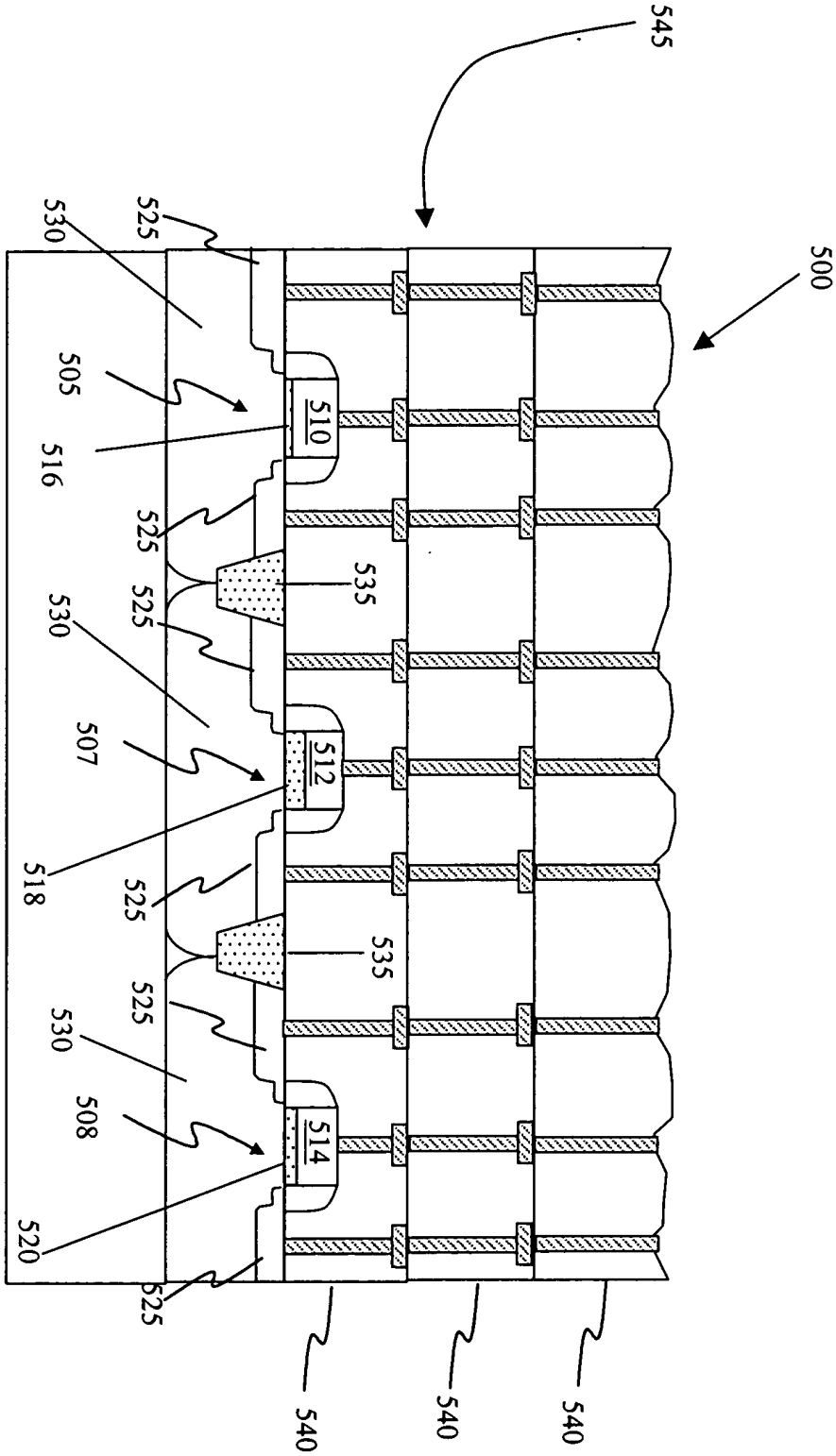

400
415
450
425
415a
420
435
445
425
440
430
470
425
460
420
455
465
425
430
425
480
420
475
485
425
490
410

FIGURE 4


545
500
530
525
505
516
510
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535
525
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507
512
518
525
535
525
530
508
514
520
525
540
540
540

FIGURE 5